

# SYSTEM AND METHOD FOR ALIGNING MULTI-CHANNEL CODED DATA OVER MULTIPLE CLOCK PERIODS

## ABSTRACT

5           A system and method is provided for aligning multi-channel coded data over multiple  
clock periods. Data is received through a plurality of data channels and stored in a plurality  
of latches or queues. Data is scanned to determine whether a valid data transition has  
occurred. Once a valid transition is detected on all of the plurality of data channels, data is  
substantially simultaneously read out of the latches or queues resulting in synchronized or  
10 aligned data being provided at the output.